

Work Order ID 58100

April 23, 2010 8:11:47 AM



Page 1

Item ID: D2572

Accept



Setup Start



Revision ID:

Item Name: Saddle, Fwd In 205

Stop



Start Date: 23/04/2010 Start Qty: 8.00



Cust Item ID:

Required Date: 07/05/2010 Req'd Qty: 8.00



Customer:

Reference:

Approvals:

Process Plan:

[Signature]

Date: 10-1-22 Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D2572

Rev E

100

0.00



HAAS CNC VERTICAL MACHINING #1

0.00

B.A 10/05/08

8

0

HAAS 1

HAAS CNC vertical machine #1

Memo

% Program Batch No. *B.A B58100*

Double check by: *[Signature]*

1-Machine Step No 1 per Folio FA051 and inspect per attached Dimension Sheets

2-Machine Step No 2 per Folio FA051 and inspect per attached Dimension Sheets

3-Machine Step No 3 per Folio FA051 and insp

110

0.00



CONVENTIONAL MILLING MACHINE

0.00

B.A 10/05/10

8

0

Mill Conv

Conventional Milling Machine

Memo

Machine keyway as per dwg D2571 & D2572

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Page 2

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

120

QC2- Inspect parts off machine FAI/FAIB

0.00

Y.A 10/05/08

8

0



QC

Memo

0.00

Quality Control

130

QC8- Inspect parts - second check

0.00

SL 10/05/11

8



QC

Memo

0.00

Quality Control

140

Chemical Conversion Coat per QSI005 4.1

0.00

=> M 10/05/11

8

0



HandFinish

Memo

0.00

Hand Finishing

W/O:		WORK ORDER CHANGES					
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Setup Start



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Stop



Start Date: 23/04/2010 Start Qty: 8.00



Cust Item ID:

Required Date: 07/05/2010 Req'd Qty: 8.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150 Powdercoat Powder Coating	White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum Memo START TIME: 9:00AM OVEN TEMPERATURE: 320°F FINISH TIME: 9:30AM	0.00 0.00				8	0		
160 QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.00							
170 Packaging Packaging	Identify as per dwg & Stock Location 433 Memo	0.00 0.00							

⇒ 24 10/05/12

8 BK 10-5-12.

10-5-12 (8x) S

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Page 4

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Revision ID:

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Start Date: 23/04/2010 Start Qty: 8.00



Cust Item ID:

Required Date: 07/05/2010 Req'd Qty: 8.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

180

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10/05/13 *[Signature]*
10-5-12
⑧

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries

Picklist Print

April 23, 2010 8:11:52 AM

Page 1

Work Order ID: 58100



Parent Item: D2572

Parent Item Name: Saddle, Fwd In 205

Start Date: 23/04/2010

Required Date: 07/05/2010

Comments: IPP: I 02.10.02 Re-format; Change to Dwg Rev. D & incorporated
D2572 KJ

Start Qty: 8.00

Required Qty: 8.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D6101-005		Manufactured	No			100	Each	78.0000	8.0000			
Saddle Billet												

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

MAT46

46411

78

78

8.000

M.A 10/05/08

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	58100
Description: Saddle, Fwd Inboard	Part Number:	D2572
Inspection Dwg: D2572 Rev. E		Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2572 Rev. E and record below:

				Recorded Actual Dimensions				By	Date
Dim	Min	Max	Go/No Go Gauge	1	2	3	4		
A	0.438	0.443		0.441	0.441	0.441	0.441		
B	1.745	1.755		1.750	1.750	1.750	1.750		
C	3.495	3.505		3.500	3.500	3.500	3.500		
D	1.745	1.755		1.750	1.750	1.750	1.750		
E	7.990	8.010		8.002	8.002	8.002	8.002		
F	0.490	0.510		0.500	0.501	0.500	0.500		
G	0.257	0.262		0.259	0.259	0.259	0.259		
H	0.375	0.380		0.377	0.377	0.377	0.377		
I	0.490	0.510		0.501	0.5025	0.5025	0.503		
J	1.174	1.184		1.179	1.179	1.179	1.179		
K	0.558	0.578		0.571	0.572	0.571	0.571		
L	1.174	1.184		1.179	1.179	1.179	1.179		
M	1.490	1.500		1.495	1.495	1.495	1.495		
N	2.495	2.505		2.500	2.500	2.500	2.500		
O	3.869	3.879		3.874	3.874	3.874	3.874		
P	0.115	0.135		0.128	0.128	0.128	0.128		
Q	0.115	0.135		0.135	0.135	0.135	0.135		
R	0.240	0.260		0.253	0.253	0.253	0.253		
S	0.115	0.135		0.122	0.123	0.128	0.128		
T	0.178	0.198		0.188	0.188	0.188	0.188		
U	2.940	2.980		2.960	2.960	2.960	2.960		
V	0.230	0.250		0.240	0.240	0.240	0.240		
W	0.115	0.135		0.132	0.130	0.130	0.131		
X	0.307	0.312		0.310	0.310	0.310	0.310		
Y	0.760	0.765		0.764	0.764	0.764	0.764		
Z	0.352	0.372		0.362	0.360	0.364	0.360		
AA	0.470	0.530		0.500	0.500	0.500	0.500		
AB	0.615	0.635		0.626	0.626	0.626	0.626		
AC	0.053	0.073		0.063	0.063	0.063	0.063		
AD	0.240	0.260		0.245	0.245	0.245	0.245		
AE	1.375	1.395		1.388	1.388	1.389	1.389		
AF	0.115	0.135		0.135	0.135	0.135	0.135		
AG	0.240	0.280		0.250	0.250	0.250	0.250		
AH	0.240	0.260		0.247	0.247	0.247	0.247		
AI	2.000	2.020		2.002	2.006	2.005	2.006		
AJ	0.023	0.043		0.033	0.033	0.033	0.033		
Accept/Reject									

Measured by:	K.A
Date:	10/05/00

Audited by:	JL
Date:	10/05/11

Rev	Date	Change	Revised by	Approved
A		New Issue	RF	
B	02.09.24	Re-format; Added Rev. D	KJ	
C	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension AI	KJ/RF	
E	05.12.05	Added dimension AJ	KJ/JLM	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order: 58100
Description: Saddle, Fwd Inboard	Part Number: D2572
Inspection Dwg: D2572 Rev. E	Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2572 Rev. E and record below:

Dim	Min	Max	Go/No Go Gauge	Recorded Actual Dimensions				By	Date
				15	16	17	18		
A	0.438	0.443		0.441	0.441	0.441	0.441		
B	1.745	1.755		1.750	1.750	1.750	1.750		
C	3.495	3.505		3.500	3.500	3.500	3.500		
D	1.745	1.755		1.750	1.750	1.750	1.750		
E	7.990	8.010		8.002	8.002	8.002	8.002		
F	0.490	0.510		0.500	0.500	0.500	0.500		
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I	0.490	0.510		0.500	0.500	0.500	0.500		
J	1.174	1.184		1.179	1.179	1.179	1.179		
K	0.558	0.578		0.569	0.571	0.569	0.570		
L	1.174	1.184		1.179	1.179	1.179	1.179		
M	1.490	1.500		1.495	1.495	1.495	1.495		
N	2.495	2.505		2.500	2.500	2.500	2.500		
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S	0.115	0.135		0.127	0.129	0.127	0.128		
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U	2.940	2.980		2.960	2.960	2.960	2.960		
V	0.230	0.250		0.240	0.240	0.240	0.240		
W	0.115	0.135		0.131	0.130	0.130	0.130		
X	0.307	0.312		0.311	0.310	0.311	0.311		
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AB	0.615	0.635		0.626	0.626	0.626	0.626		
AC	0.053	0.073		0.063	0.063	0.063	0.063		
AD	0.240	0.260		0.245	0.245	0.245	0.245		
AE	1.375	1.395		1.389	1.389	1.389	1.389		
AF	0.115	0.135		0.135	0.135	0.135	0.135		
AG	0.240	0.280		0.250	0.250	0.250	0.250		
AH	0.240	0.260		0.247	0.247	0.247	0.247		
AI	2.000	2.020		2.004	2.006	2.006	2.006		
AJ	0.023	0.043		0.033	0.033	0.033	0.033		
Accept/Reject									

Measured by: <u>B.A</u>
Date: <u>10/05/09</u>

Audited by: <u>JL</u>
Date: <u>10/05/11</u>

Rev	Date	Change	Revised by	Approved
A		New Issue	RF	
B	02.09.24	Re-format; Added Rev. D	KJ	
C	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension AI	KJ/RF	
E	05.12.05	Added dimension AJ	KJ/JLM	

SHOP COPY
RETURN TO
ENGINEERING

UNCONTROLLED COPY

SUBJECT TO AMENDMENT

WITHOUT NOTICE
WORK ORDER

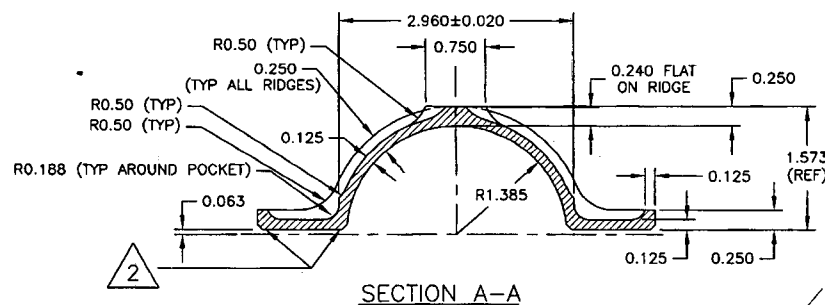
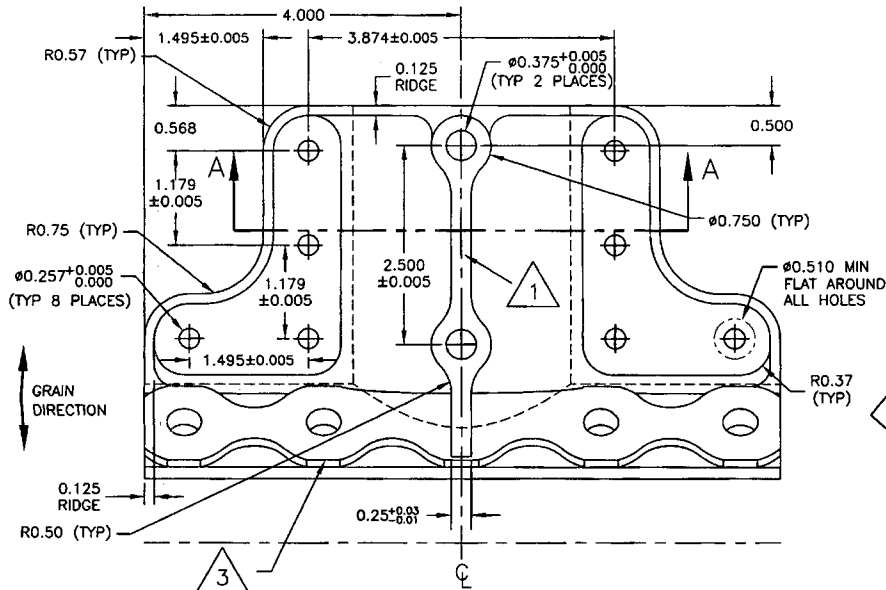
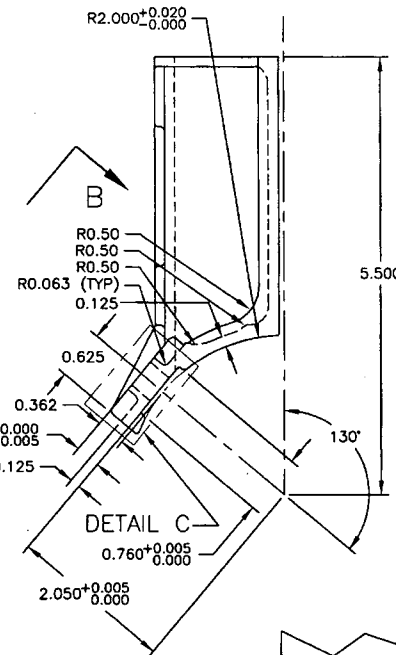
RELEASED

NO. 58100
BS104-22

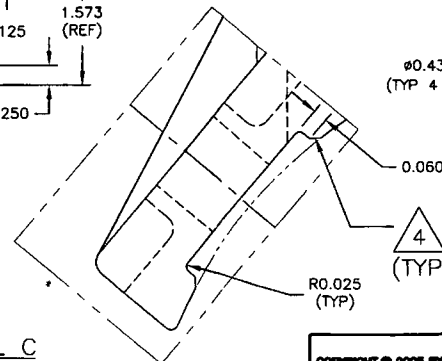
NOTES

MATERIAL: 7075-T7351 (QQ-A-250/12)
(REF DART SPEC. D6102-003)
FINISH: ACID ETCH, ALODINE PER DART QSI 005 4.1
POWDER COAT GLOSS WHITE (REF 4.3.5.1) PER
DART QSI 005 4.3
BREAK ALL SHARP EDGES 0.010 TO 0.020
TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

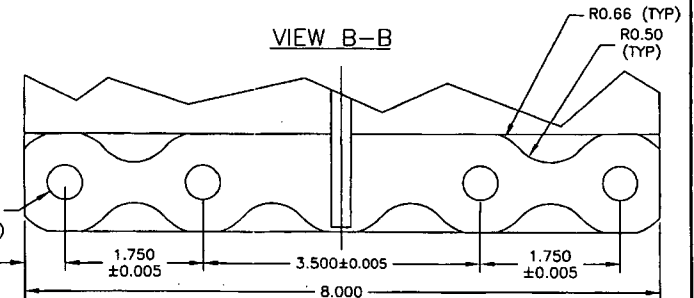
- 1 ENGRAVE PART AND BATCH NUMBER IN THIS AREA TO MAX DEPTH OF 0.010
- 2 CHAMFER 0.063" x 45° AROUND THIS SURFACE (TYPICAL 2 PLACES)
- 3 CHAMFER 0.063 x 45° ALL AROUND
- 4 CHAMFER 0.033 x 45° (SEE DETAIL C) E



DETAIL C
SCALE 2:1



VIEW B-B



E	05.07.13	ADD CHAMFER ON RIDGE NOTE 4
D	02.09.06	ADD RIDGES; TIGHTEN TOLERANCES
C	99.10.22	INCORP. DEO 9123/9079/9102 ADD DIMENSIONS PER TSR A1177
B	96.12.02	ADD GRAIN DIR., 0.438 WAS 0.425
A	96.09.16	NEW ISSUE
DESIGN	DS	DRAWN BY PH
CHECKED		APPROVED
DATE	05.07.13	TITLE
		INNER FWD SADDLE
		DART AEROSPACE LTD. HARRISBURG, ONTARIO, CANADA
		DRAWING NO. D2572
		REV. E
		SHEET 1 OF 1
		SCALE 2:3

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DART AEROSPACE LTD.

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